



Advanced Airdrop for Land Combat Advanced Technology Demonstration

Overview:

The **Advanced Technology Demonstration (ATD)** of precision guided, high altitude, offset delivery with the airdrop of several **Advanced Precision Airborne Delivery Systems (APADS)** has been successfully completed.

The GPADS-Medium (M) and Heavy (H), utilizing large ram-air canopies (3,600-ft² and 7,350-ft², respectively), provide the capability to precisely deliver heavy payloads (10,000-42,000 pounds). The technical demonstration of these systems has been accomplished as an Army Advanced Technology Demonstration (ATD) program (6.3) entitled Advanced Airdrop for Land Combat. Joint testing with NASA is also ongoing. GPADS-Heavy is being developed as the recovery system for the space station Experimental Crew Return Vehicle (X-CRV).

The Semi-Rigid Deployable Wing (SRDW) is a 600-lbs capacity, high glide delivery system for precision delivery of critical supplies as well as remote weapon and sensor emplacement from significant offset distances (up to 15 miles). During the demonstration the SRDW was released from a C-130 aircraft at an altitude of 18,000-feet and approximately 8 miles from the planned impact point. The pilot and drogue parachute were deployed and functioned as planned. At 500-feet AGL, the T-10 parachutes deployed and recovered the SRDW. The SRDW gently landed on the drop zone approximately 400 meters from the planned impact point.



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rev 11-3-98